Instruments for preparing independent kungfu environment

- 1. 本文档中我全部使用 su 转换成 root 来执行, 你可以使用 sudo 来执行
- 2. yum install rpm-build
- 3. yum install numactl

#install gcc

yum groupinstall "Development Tools"

4. guide of install cmake-[3.8.*]:

wget https://cmake.org/files/v3.11/cmake-3.11.3.tar.gz

tar zxvf cmake-3.11.3.tar.qz

cd cmake-3.11.3/

./bootstrap

[返回显示.....CMake has bootstrapped. Now run gmake.]

gmake

gmake install

/usr/local/bin/cmake --version

[返回显示...cmake version 3.11.3]

```
cmake -version
```

[返回显示...cmake version 3.11.3]

5. commands of install log4cplus [https://github.com/log4cplus/log4cplus]:

```
git clone <a href="https://github.com/log4cplus/log4cplus.git">https://github.com/log4cplus/log4cplus.git</a>
cd log4cplus/
git submodule update --init --recursive
mkdir build
cd build
cmake ..
make
    make install
[返回显示...../usr/local/lib64/liblog4cplus.so]
[返回显示....Installing: /usr/local/bin/loggingserver......]
[注意发现功夫的 docker 这些文件都在另一个目录,所以需要建立 4 个链接
文件1
###In [参数][源文件或目录][目标文件或目录]
In -s /usr/local/bin/loggingserver /usr/bin/loggingserver
In -s /usr/local/lib64/liblog4cplus.so.2.0.0 /usr/lib64/liblog4cplus.so.2.0.0
```

```
In -s /usr/local/lib64/liblog4cplus.so /usr/lib64/liblog4cplus.so
# # add LD_LIBRARY_PATH for all users
# The cleanest way to add a library to the search path is by adding a file to
/etc/ld.so.conf.d/
# suppose log4cplus is installed in /usr/local/lib, run :
#echo "/usr/local/lib" >> /etc/ld.so.conf.d/log4cplus-2.0.so.conf
# my log4cplus is installed in /usr/local/lib64, run :
echo "/usr/local/lib64" >> /etc/ld.so.conf.d/log4cplus-2.0.so.conf
# load the new configuration, run the following command as root:
<u>ldconfig –v</u>
<u>Idconfiq</u>
6. guide of install pid-2.1.1:
    yum install python-nose
```

In -s /usr/local/lib64/liblog4cplus.so.0 /usr/lib64/liblog4cplus.so.0

```
curl "https://bootstrap.pypa.io/get-pip.py" -o "get-pip.py"
    python get-pip.py
    pip -V
    pip install pid
7. install supervisor
    install dependency meld3 (yum install python-meld3)
   yum install python-meld3
   # I meet no package python-meld3 available error, and run 'yum update',
   #you may not need it
    pip install meld3
    pip install supervisor
8. guide of install boost-1.62:
#there is no python in it, you need reference:
#https://blog.csdn.net/majianfei1023/article/details/46781581
sudo yum install python-devel
```

<u>wget</u>

https://sourceforge.net/projects/boost/files/boost/1.62.0/boost_1_62_0.tar.gz

tar zxvf boost 1 62 0.tar.qz

cd boost 1 62 0

mkdir /opt/kungfu/

mkdir /opt/kungfu/toolchain

mkdir /opt/kungfu/toolchain/boost-1.62.0

#安装 boost 基础库

./bootstrap.sh --prefix=/opt/kungfu/toolchain/boost-1.62.0

./b2 install --prefix=/opt/kungfu/toolchain/boost-1.62.0

#执行第二遍,专门安装 boost.python

./b2 --with-python --prefix=/opt/kungfu/toolchain/boost-1.62.0 install

#there is /usr/lib64/libpython2.7.so, but we need libpython.so, run this

command to make a soft link:

<u>ln -s /usr/lib64/libpython2.7.so.1.0 /usr/lib64/libpython.so</u>

#maybe need a reload:

```
<u>Idconfig</u>
#ldconfig -v
9. guide of install rfoo [https://github.com/aaiyer/rfoo]:
   #looks rfoo requires python, so I run it after boost.python installed.
git clone https://github.com/aaiyer/rfoo.git
cd rfoo/
#install dependency Cython first
pip install Cython
#[遇到错误信息]
#ipaclient 4.5.4 requires jinja2, which is not installed.
#rtslib-fb 2.1.63 has requirement pyudev>=0.16.1, but you'll have pyudev 0.15
#which is incompatible.
#ipapython 4.5.4 has requirement dnspython>=1.15, but you'll have
#dnspython 1.12.0 which is incompatible.
#解决:
#安装 jiaja2
yum -y install python-jinja2
#更新 pyudev
```

git clone https://github.com/lunaryorn/pyudev.git cd pyudev sudo python setup.py install #更新 dnspython wget http://www.dnspython.org/kits/1.15.0/dnspython-1.15.0.tar.gz tar -zxvf dnspython-1.15.0.tar.qz cd dnspython-1.15.0 sudo python setup.py install #再运行一遍 pip install Cython 不再显示错误 #继续执行 rfoo 的安装 sudo python setup.py install #遇到错误 unknown file type '.pyx' (from 'rfoo/marsh.pyx') 解决办法: 办法 1) 先编译成 c 语言的再执行安装

cd rfoo/

```
cpython marsh.pyx 编译出 marsh.c
修改
ext modules = [Extension("rfoo.marsh", ["rfoo/marsh.pyx"])]
为
ext_modules = [Extension("rfoo.marsh", ["rfoo/marsh.c"])]
再次执行 python setup.py install 成功了:
[root@VM 24 28 centos rfoo]# python setup.py install
running install
running build
running build py
running build_ext
building 'rfoo.marsh' extension
creating build/temp.linux-x86 64-2.7
creating build/temp.linux-x86_64-2.7/rfoo
gcc -pthread -fno-strict-aliasing -O2 -g -pipe -Wall -Wp,-D FORTIFY SOURCE=2 -fexceptions -fstack-protector-
strong --param=ssp-buffer-size=4 -grecord-gcc-switches -m64 -mtune=generic -D GNU SOURCE -fPIC -fwrapv -
DNDEBUG -O2 -q -pipe -Wall -Wp,-D FORTIFY SOURCE=2 -fexceptions -fstack-protector-strong --param=ssp-
buffer-size=4 -grecord-gcc-switches -m64 -mtune=generic -D GNU SOURCE -fPIC -fwrapv -fPIC -
l/usr/include/python2.7 -c rfoo/marsh.c -o build/temp.linux-x86_64-2.7/rfoo/marsh.o
gcc -pthread -shared -Wl,-z,relro build/temp.linux-x86 64-2.7/rfoo/marsh.o -L/usr/lib64 -lpython2.7 -o build/lib.linux-
x86 64-2.7/rfoo/marsh.so
running build_scripts
creating build/scripts-2.7
```

copying and adjusting scripts/rconsole -> build/scripts-2.7

changing mode of build/scripts-2.7/rconsole from 644 to 755

running install lib

creating /usr/lib64/python2.7/site-packages/rfoo

copying build/lib.linux-x86 64-2.7/rfoo/marsh.so -> /usr/lib64/python2.7/site-packages/rfoo

copying build/lib.linux-x86 64-2.7/rfoo/_rfoo.py -> /usr/lib64/python2.7/site-packages/rfoo

creating /usr/lib64/python2.7/site-packages/rfoo/utils

copying build/lib.linux-x86 64-2.7/rfoo/utils/rconsole.py -> /usr/lib64/python2.7/site-packages/rfoo/utils

copying build/lib.linux-x86_64-2.7/rfoo/utils/_init_.py -> /usr/lib64/python2.7/site-packages/rfoo/utils

copying build/lib.linux-x86 64-2.7/rfoo/ init .py -> /usr/lib64/python2.7/site-packages/rfoo

byte-compiling /usr/lib64/python2.7/site-packages/rfoo/ rfoo.py to rfoo.pyc

byte-compiling /usr/lib64/python2.7/site-packages/rfoo/utils/rconsole.py to rconsole.pyc

byte-compiling /usr/lib64/python2.7/site-packages/rfoo/utils/ init .py to init .pyc

<u>byte-compiling /usr/lib64/python2.7/site-packages/rfoo/ init .py to init .pyc</u>

running install_scripts

copying build/scripts-2.7/rconsole -> /usr/bin

changing mode of /usr/bin/rconsole to 755

running install_egg_info

Writing /usr/lib64/python2.7/site-packages/rfoo-1.3.1-py2.7.egg-info

[root@VM 24 28 centos rfoo]#

办法 2)

或者

from Cython.Build import cythonize

ext_modules = cythonize(ext_modules)

<u>办法3)</u>

https://github.com/aaiyer/rfoo/issues/7

10. compiling kungfu and install kungfu

git clone https://github.com/taurusai/kungfu.git

cd kungfu

mkdir build

cd build



OPTION(SKIP_DEPENDENCY_CHECKING

"SKIP_CHECK_KUNGFU_DEPENDENCY, default OFF." ON)

从 OFF 改为 ON,再删除 build 下重新 cmake ... 就好了,不觉明历:

build]# rm -rf *

build]# cmake ..

build]# make && make package

build]# yum install kungfu-0.0.5-Linux.rpm

Install 1 Package

Total size: 60 M

Installed size: 60 M

Is this ok [y/d/N]:

fatal error: openssl/ssl.h: No such file or directory

执行

yum install openssl-devel

解决问题

yum install libssh.x86_64

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